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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,813	07/14/2003	Jae Won Chang	0465-1037P	4176
2292	7590 04/13/2006		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			PATEL, RITA RAMESH	
PO BOX 747 FALLS CHUI	RCH, VA 22040-0747		ART UNIT	PAPER NUMBER
	•		1746	
			DATE MAIL ED: 04/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/617,813	CHANG, JAE WON	
Office Action Summary	Examiner	Art Unit	_
	Rita R. Patel	1746	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY TO BE A STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY TO BE A STATE OF THE MAILING IDENTIFY THE MAILING IDE	DATE OF THIS COMMUN. 136(a). In no event, however, may d will apply and will expire SIX (6) Miles, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 14.	lulv 2003		
· · · · · · · · · · · · · · · · · · ·	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	ance except for formal ma		
Disposition of Claims			
4) ⊠ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 14 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) ☐ The oath or declaration is objected to by the E	(a) accepted or (b) objection of (a) accepted or (b) objection is required if the drawing.	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d	I).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No en received in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1/19/05, 6/7/05.	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 	

DETAILED ACTION

Priority

Acknowledgement has been made of applicant's claim for priority under 35 U.S.C. 119.

Drawings

The drawings received 07/14/03 are acceptable for examination purposes.

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative under 35 U.S.C 103(a) as obvious over Russell (US Patent No. 2,474,370).

Russell teaches a flywheel comprising a hub 10, a rim 14, and spokes 12, 12a, 12b, 12c, having channeled cross section with face thereof normal to the axis of the flywheel, a plurality of ribs bridging the spoke channels at the ends thereof adjacent the rim whereby to provide a continuous rim channel discontinuous with the several spoke channels (col. 1, lines 51-56; col. 2, line 1). An object of the present invention disclosed by Russell is to produce a structure having the desired mass and balance (col. 1, lines 18 and 22-23); as well as, a means for firmly securing a weight-imparting set-hardenable substance within the rim of a flywheel (col. 1, lines 37-40). Russell teaches

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the hub 10 is provided with a central aperture 18 for journaling the flywheel to any desired shaft of an engine and having associated therewith a slot 20 and an inner groove 22 for keying the flywheel to the shaft by any suitable means, also providing a plurality of reinforcing ribs 24 integral with the hub 10 and extending radially thereof form an integral portion of the channeled side walls of the spokes and serve to reinforce the spokes (col. 2, lines 55-56; col. 3, lines 1-8).

Although Russell does not stately express an outer tub, Russell does teach said invention may be attached to any desired shaft of an engine; implicating the attachment to a washing machine. Furthermore, the bottom wall of a washing machine would provide as a supporting member coupled with the fixing member. In Figure 1 it is shown that the flywheel is in a ring form. Also, slot 20 located about the radial groove 22 for connecting said wheel to a fixing member is also in a ring form, hence showing a deliberately designed connection for attachment to a fixing member of a ring form. As seen in Figure 1, each of the ribs, 12, 12a, 12b, 12c, are formed such that a first end is connected to the outer surface of the fixing member and a second end is connected to an inner surface of the mass member.

Moreover, although Russell does not explicitly teach a bearing housing provided at a bottom of an outer tub, Russell does disclose attaching said flywheel to the shaft by any suitable means, and it is well known in the art to use bearings encompassed within a bearing housing within washing machines for integrally attaching an absorber thereunto.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russell and further in view of Altnau (US Patent No. 4,250,724).

Russell teaches the claimed invention, however, fails to provide an explicit teaching of a cabinet, outer tub, inner tub, driving motor and drive shaft for said washing machine. Altnau, however, discloses a suspension system for a washing machine including a tub assembly having an outer stationary tub and an inner clothes receiving tub mounted for rotation on a central shaft extending downwardly through the lower wall of the stationary tub operatively connected to a transmission which serves as a drive mechanism for the washing machine. A balance ring member is coupled to the central shaft for rotation therewith an is located as near as is practical to the true center of mass of the inner rotatable tub and washing machine drive mechanism, for stabilizing the rotating tub during high speed spinning, even when a clothes load in the tub is out of balance. It would be obvious to one of ordinary skill in the art at the time of the invention to integrally combine a washing machine in Russell for balancing washing machines in operation, as shown by Altnau, with expectation of providing stability and resilient support during operation of said washing apparatus.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita R. Patel whose telephone number is (571) 272-8701. The examiner can normally be reached on M-F: 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RRP

MICHAEL BARR

SUPERVISORY FOR THE EXAMPLER